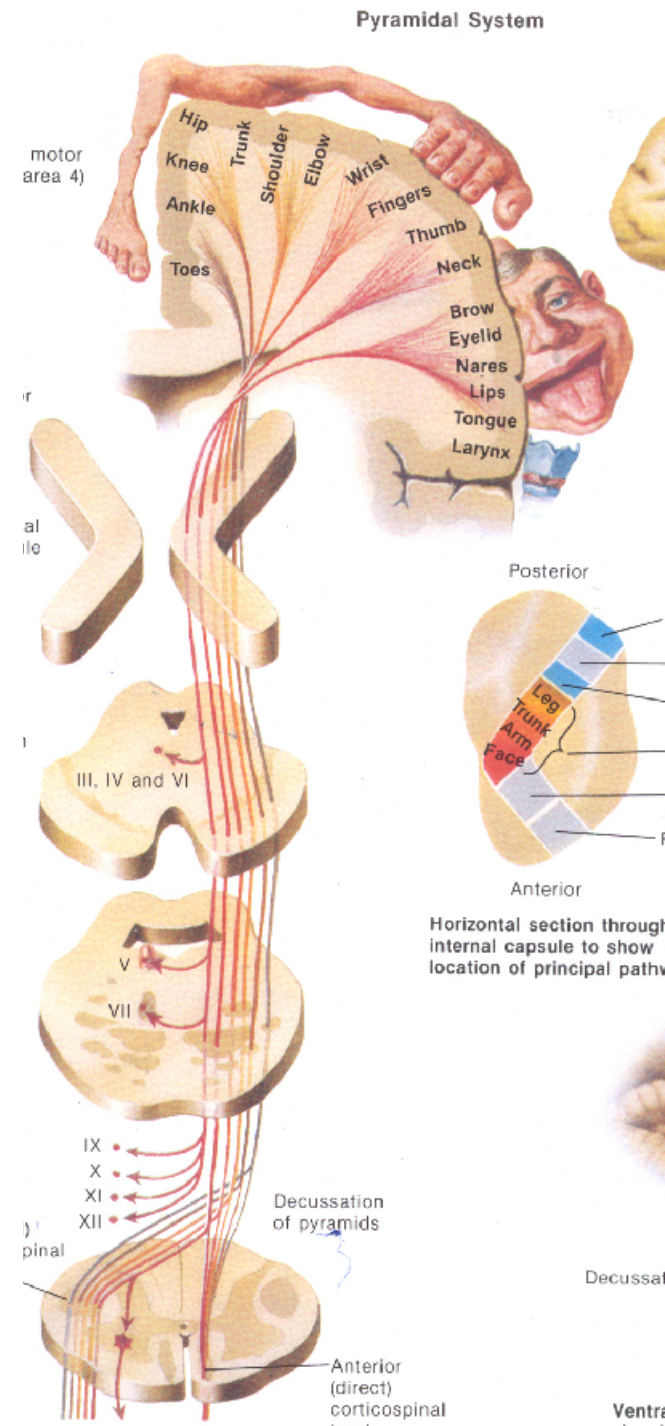


PONS ProfDrMTY

Longitudinal fibers:

- Corticospinal fibers
- Corticobulbar (Corticonuclear) fibers
- Corticopontine fibers



CN5 (trigeminal n):

Lower parts of mesencephalic nucleus (upper pons)

Sensory principle nucleus

Upper parts of spinal nucleus (lower pons)

Motor nucleus (upper pons)

CN6 (abducens n):

Motor nucleus (lower pons)

CN7 (facial n):

Superior salivatory nucleus (lower pons)

Motor nucleus (lower pons)

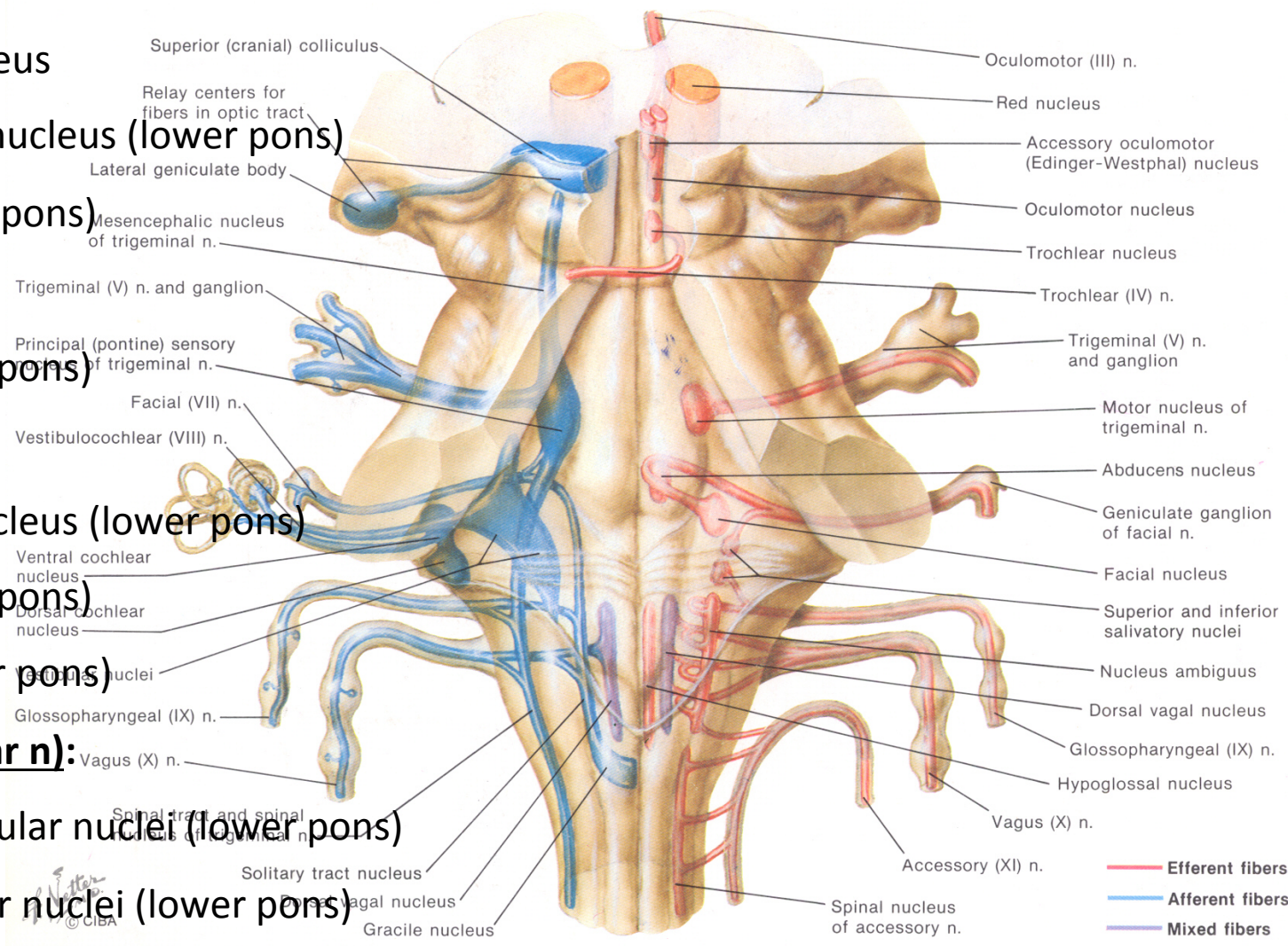
Solitary nucleus (lower pons)

CN8 (vestibulocochlear n):

Sup. and lateral vestibular nuclei (lower pons)

Ant. and post. cochlear nuclei (lower pons)

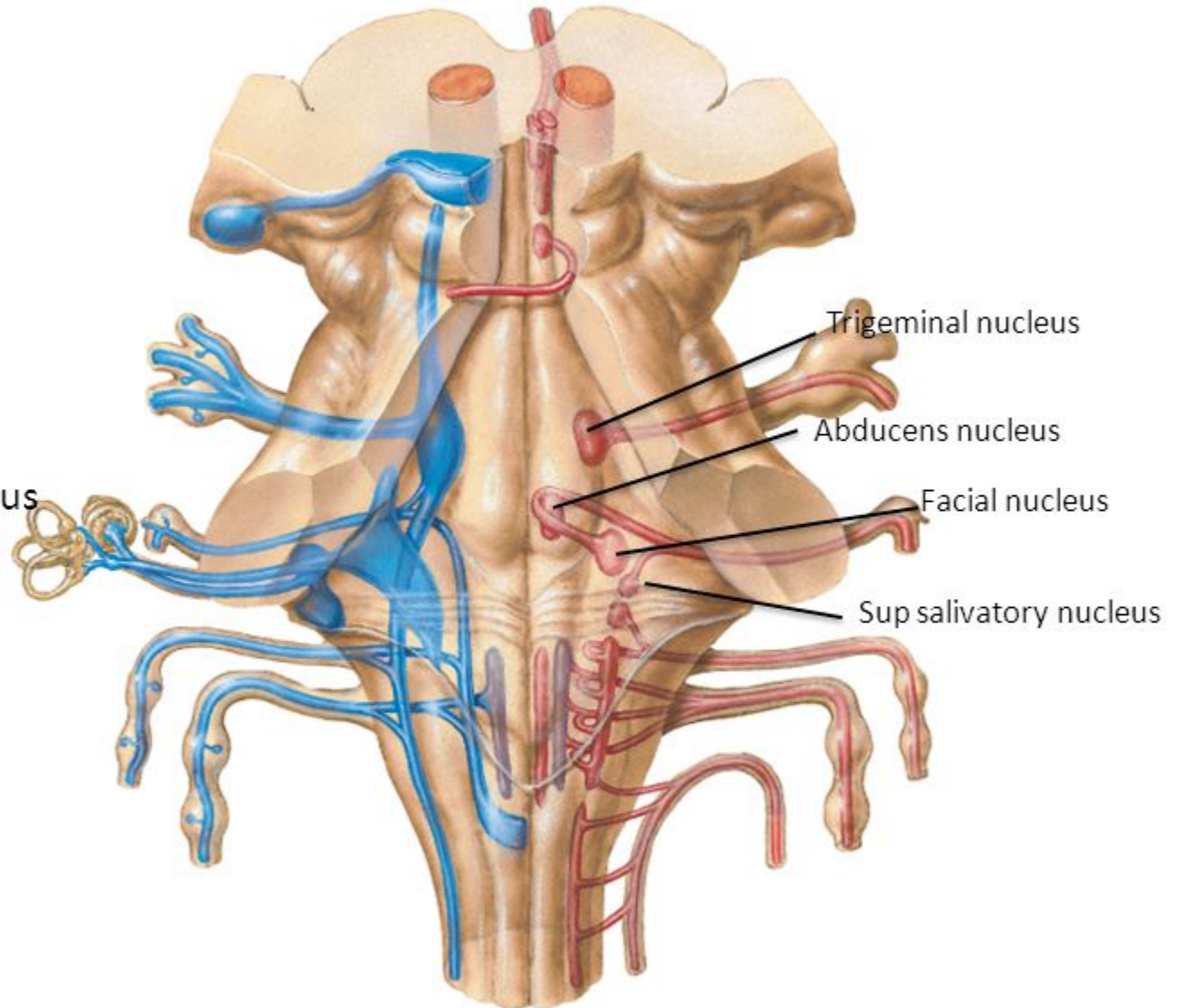
Cranial nerve nuclei in PONS



Pons

Cranial nerve nuclei

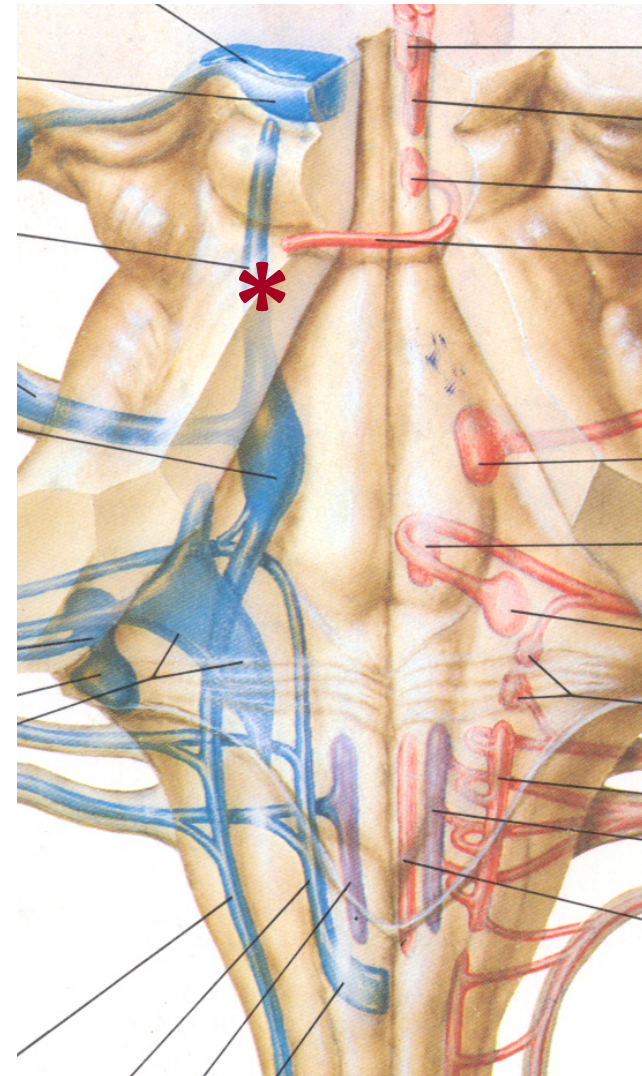
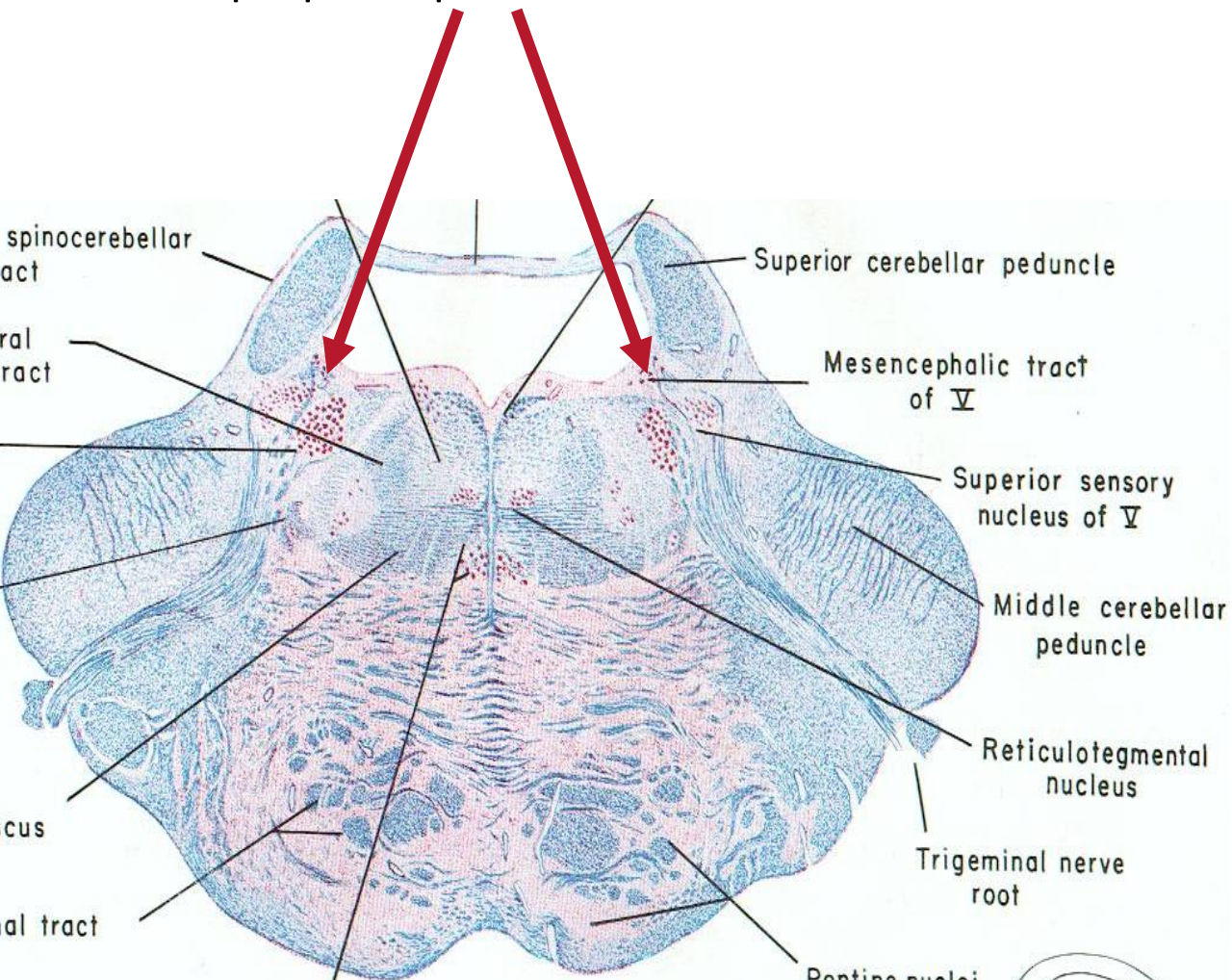
- Rostral Pons
 - Trigeminal nucleus
- Caudal Pons
 - Abducens nucleus
 - Facial nucleus
 - Sup salivatory nucleus



The Mesencephalic Nucleus of the Trigeminal Nerve

Begins to appear at uppermost levels of the pons

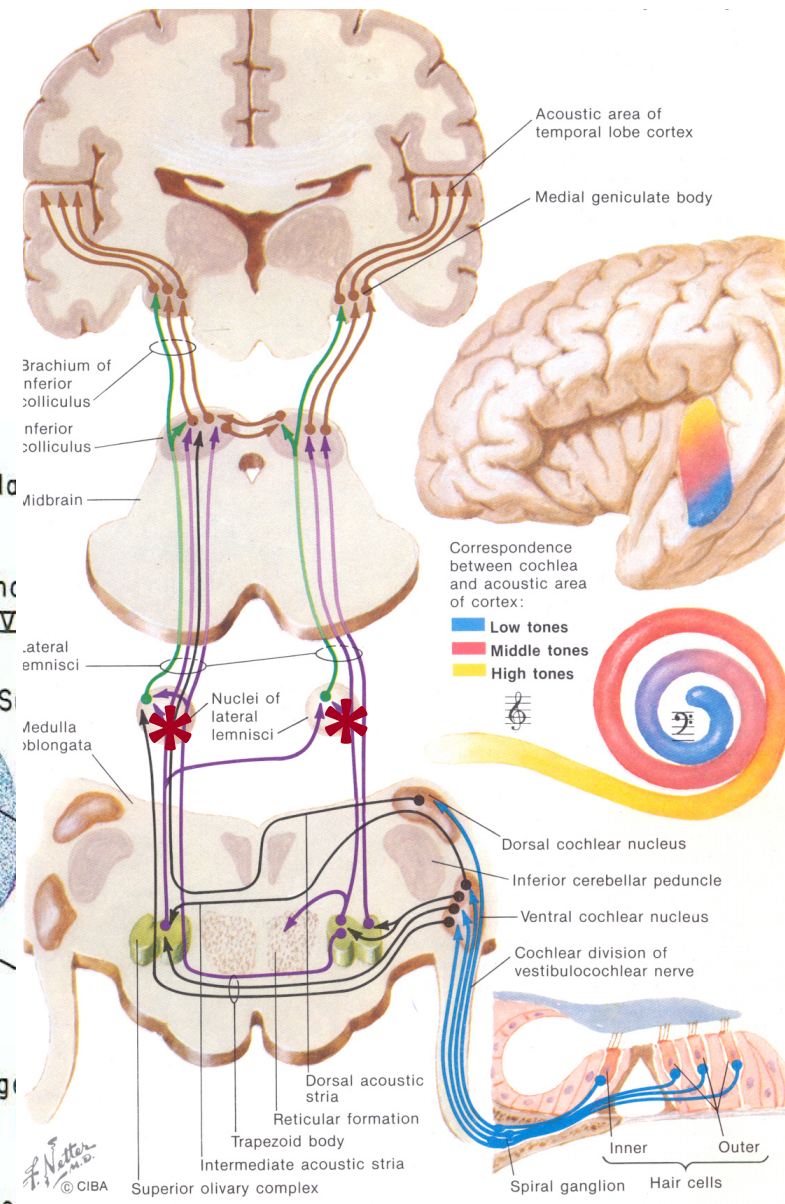
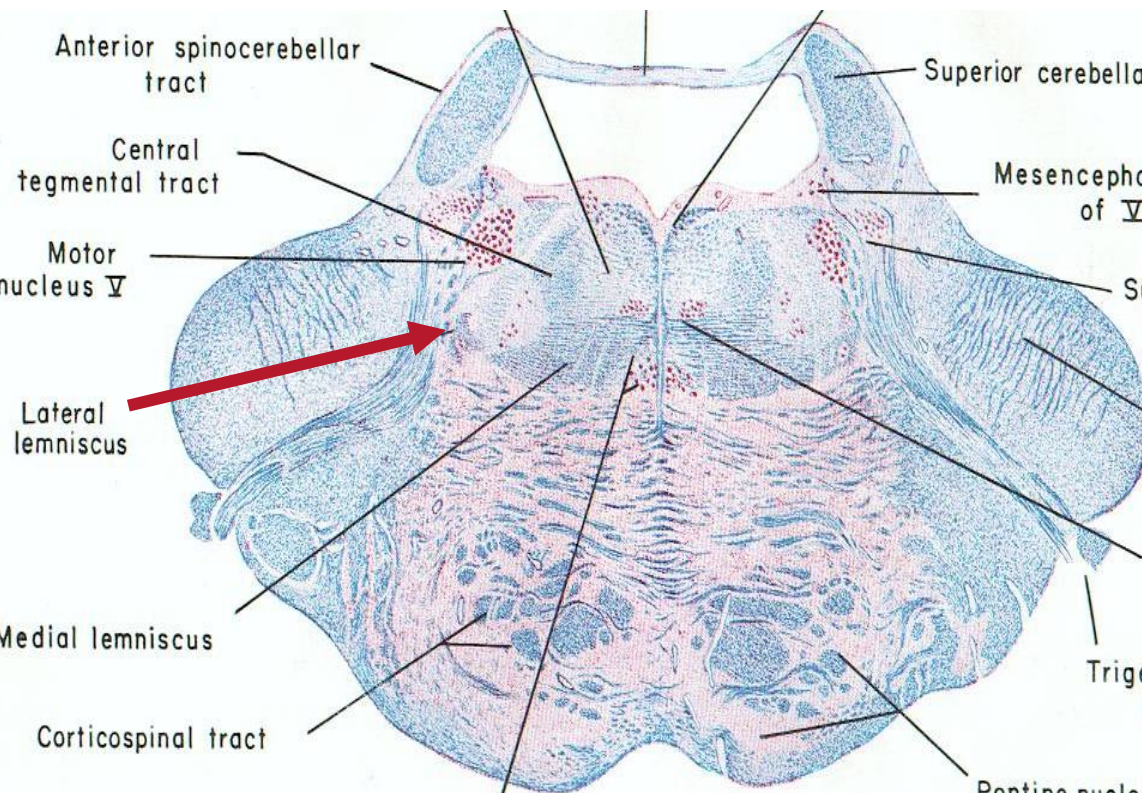
Takes the proprioception sense of head and neck



Nucleus of Lateral Lemniscus

Becomes apparent in the uppermost pons

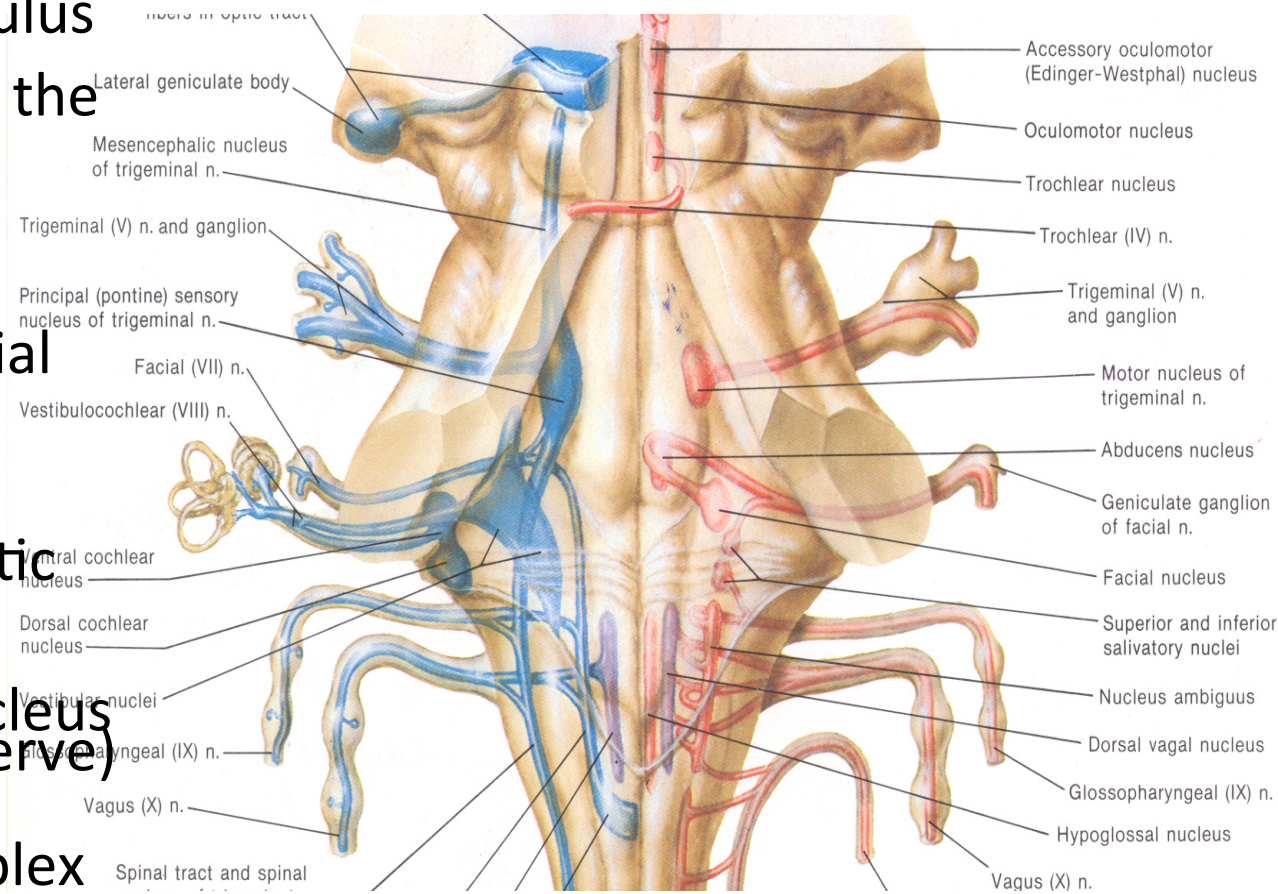
Located on the medial aspect of the lateral lemniscus (related to auditory pathways)



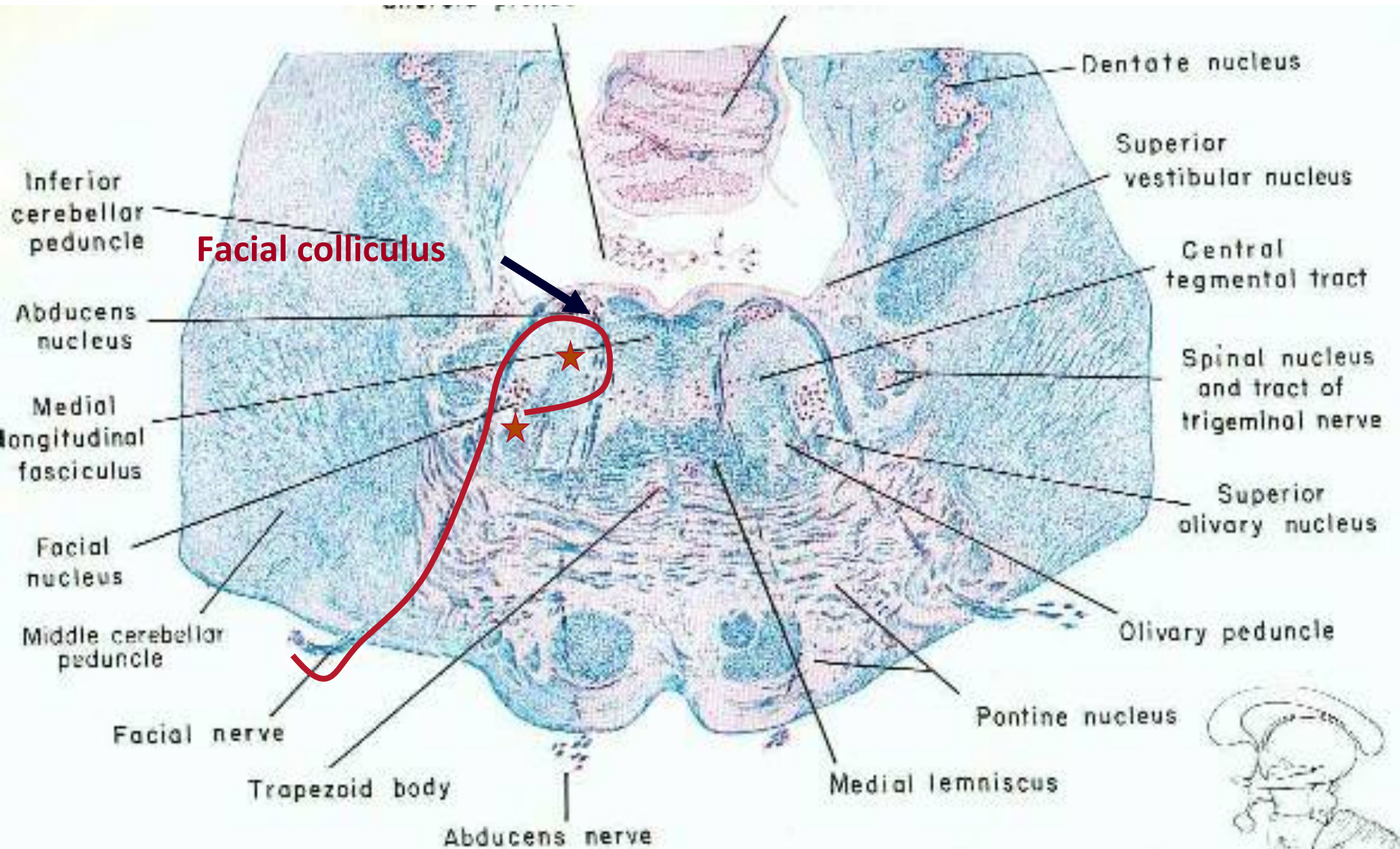
Pontine tegmentum:

Level of the facial colliculus

- 1- The spinal nucleus of the trigeminal nerve
- 2- Motor nucleus of abducens nerve
- 3- Motor nucleus of facial nerve
- 4- Superior salivatory nucleus (parasympathetic nuc of facial nerve)
- 5- Solitary tract and nucleus (sensory nuc of facial nerve)
- 6- Vestibular nuclei or vestibular nuclear complex
- 7- Cochlear nucleus



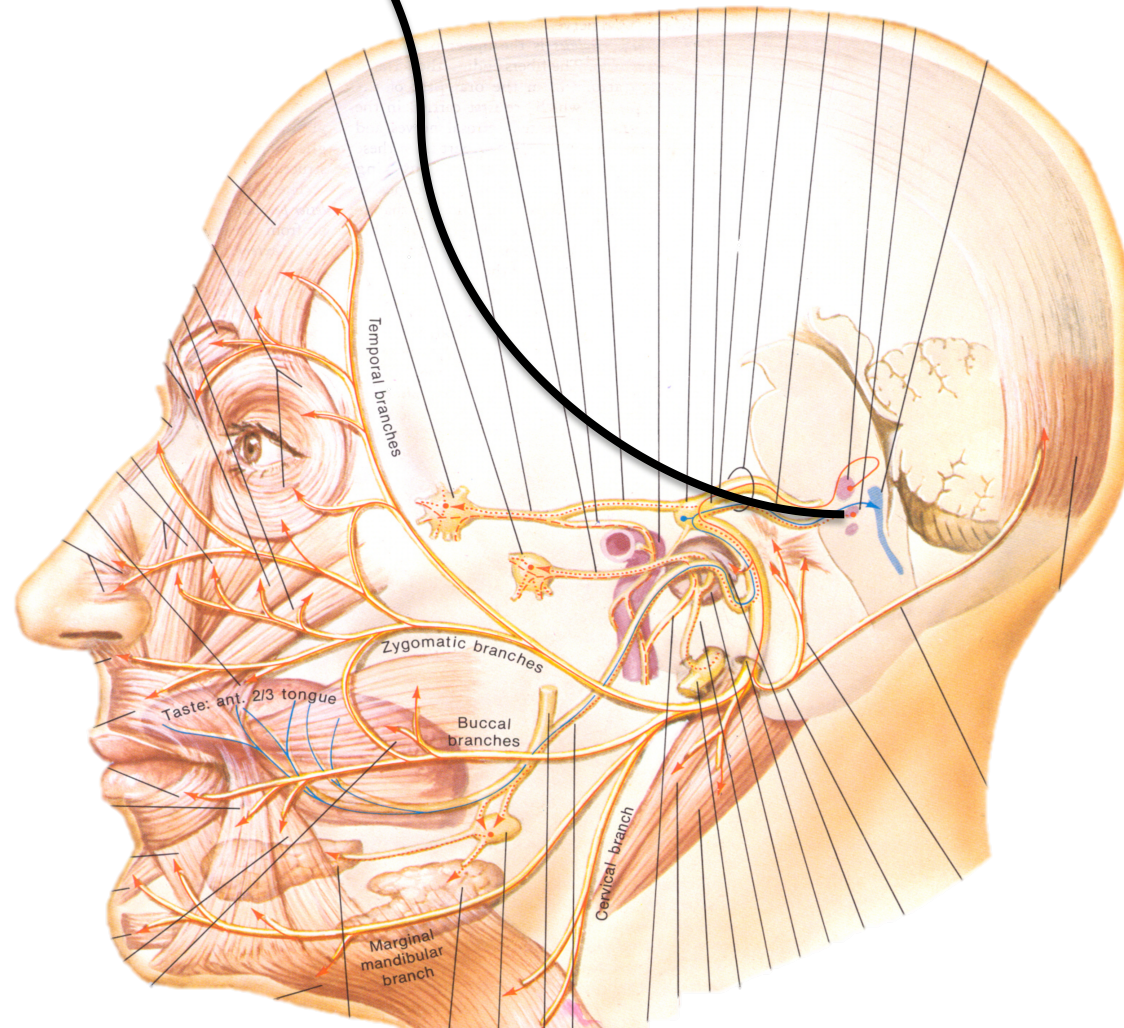
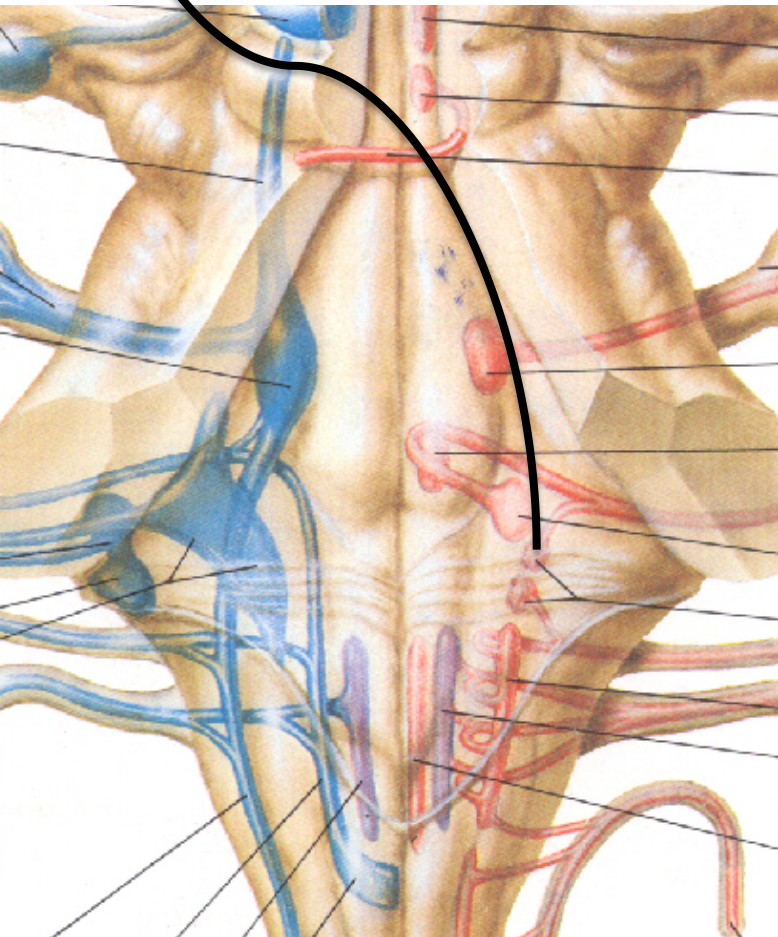
Motor nucleus of facial nerve:



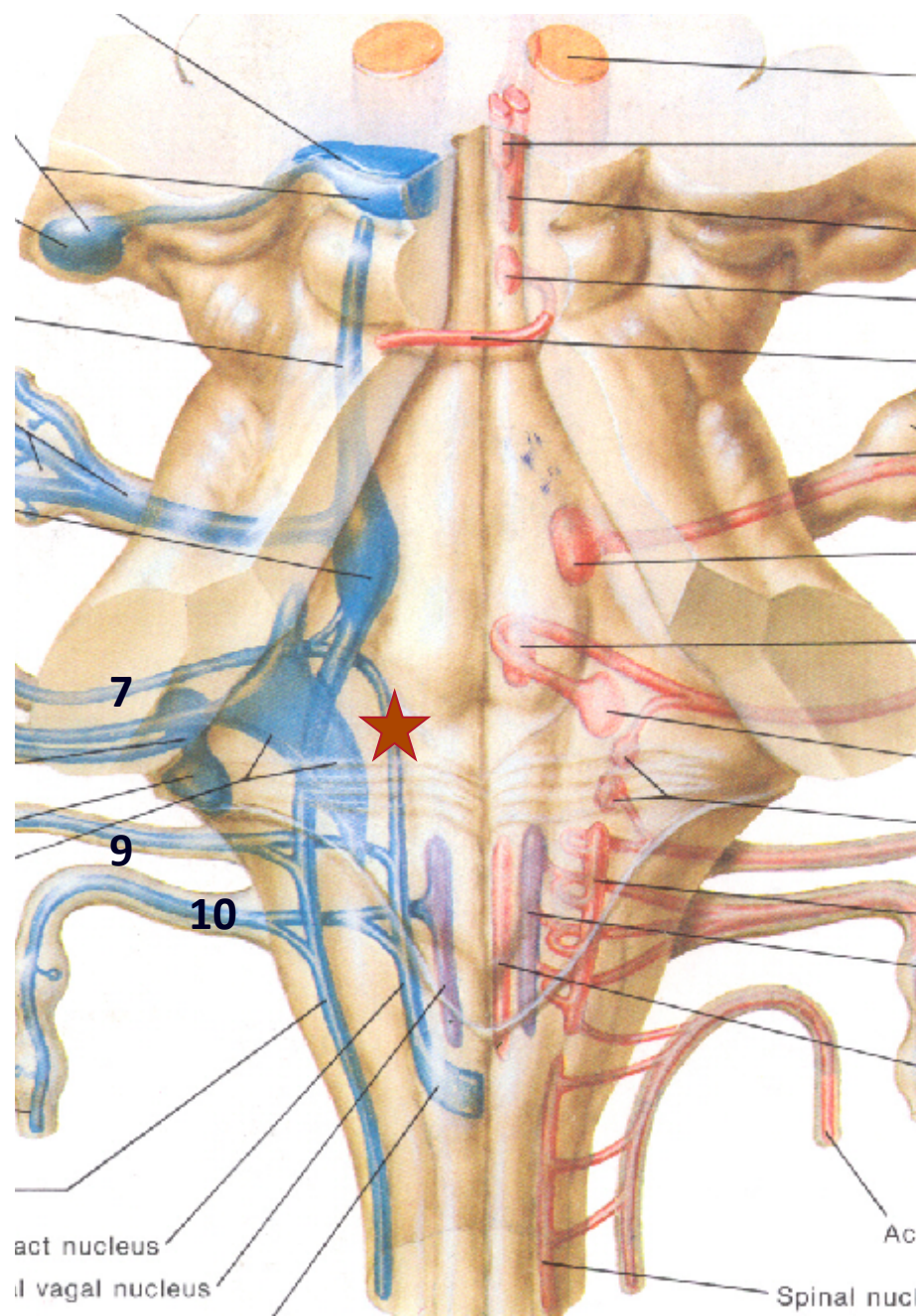
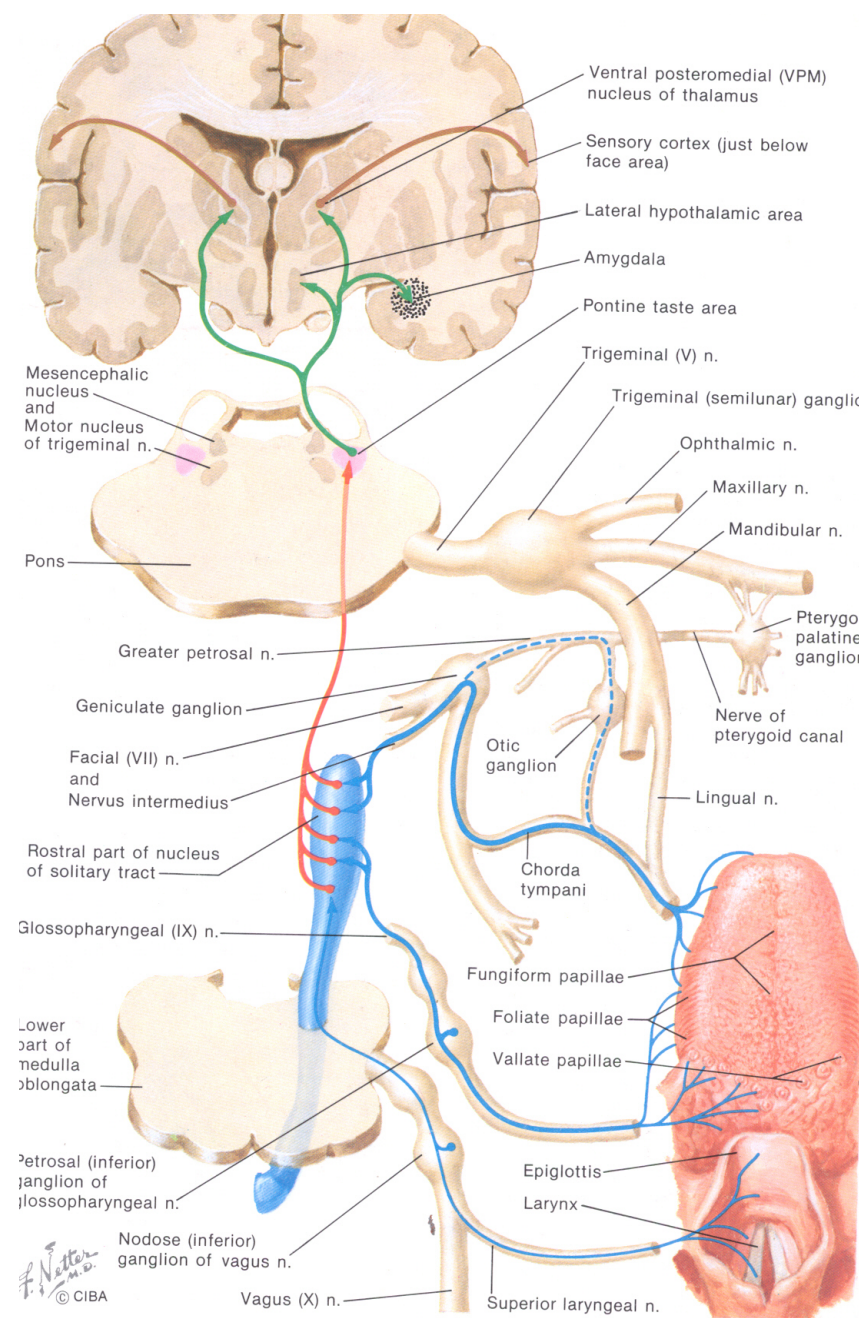
Superior salivatory nucleus:

Parasympathetic nucleus of facial nerve

Sends efferent fibers to salivary and lacrimal glands



Solitary tract and nucleus of facial nerve

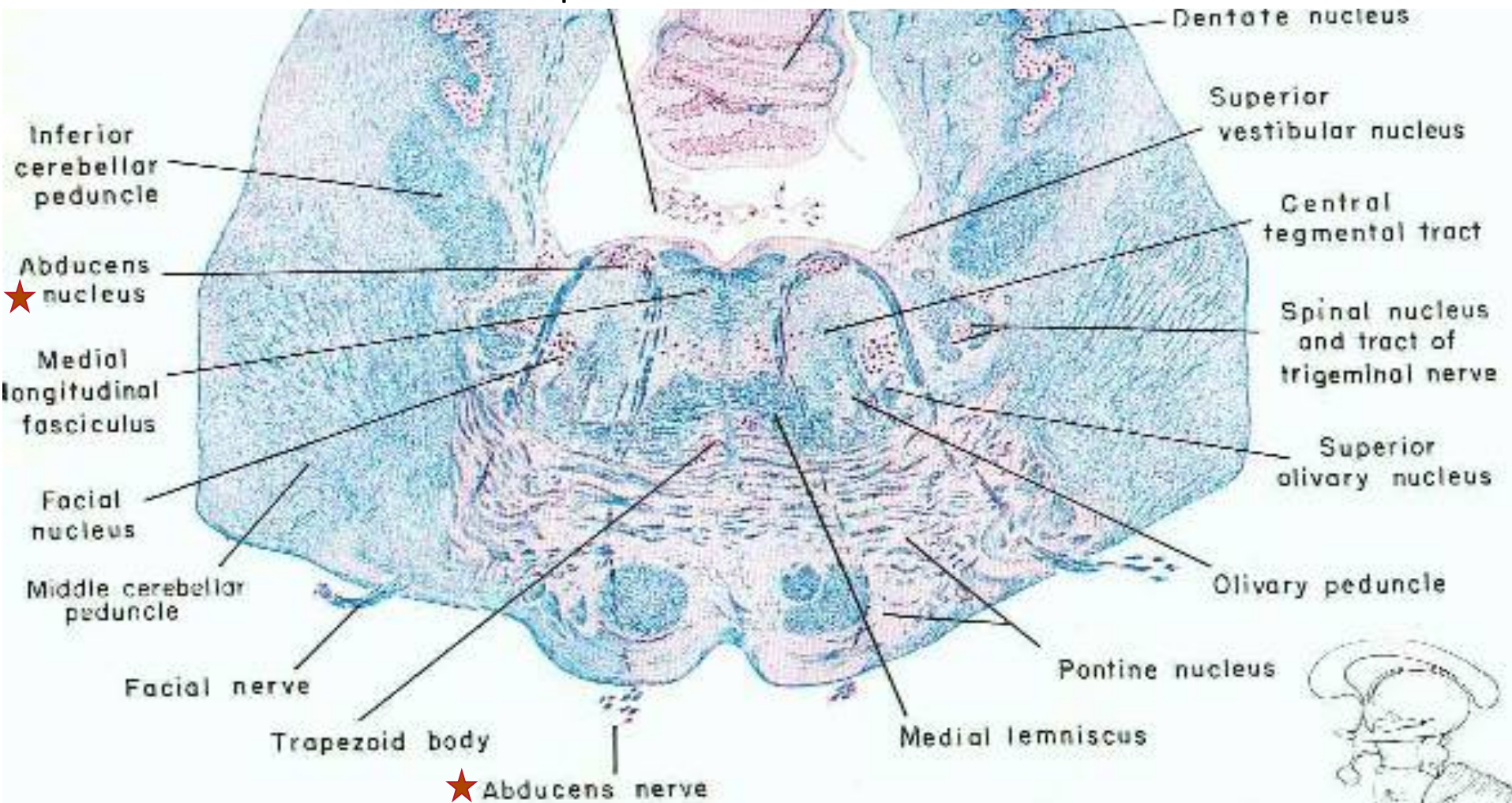


Motor nucleus of abducens nerve:

Lies dorsal to the tegmentum

Fibers pass ventral and downwards

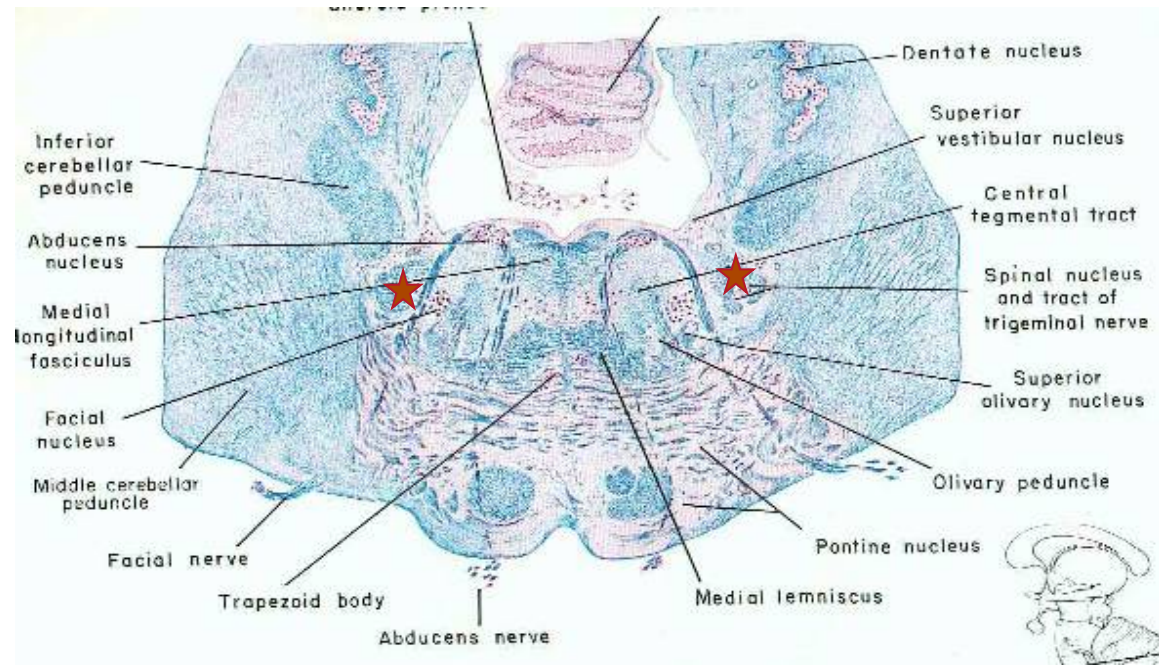
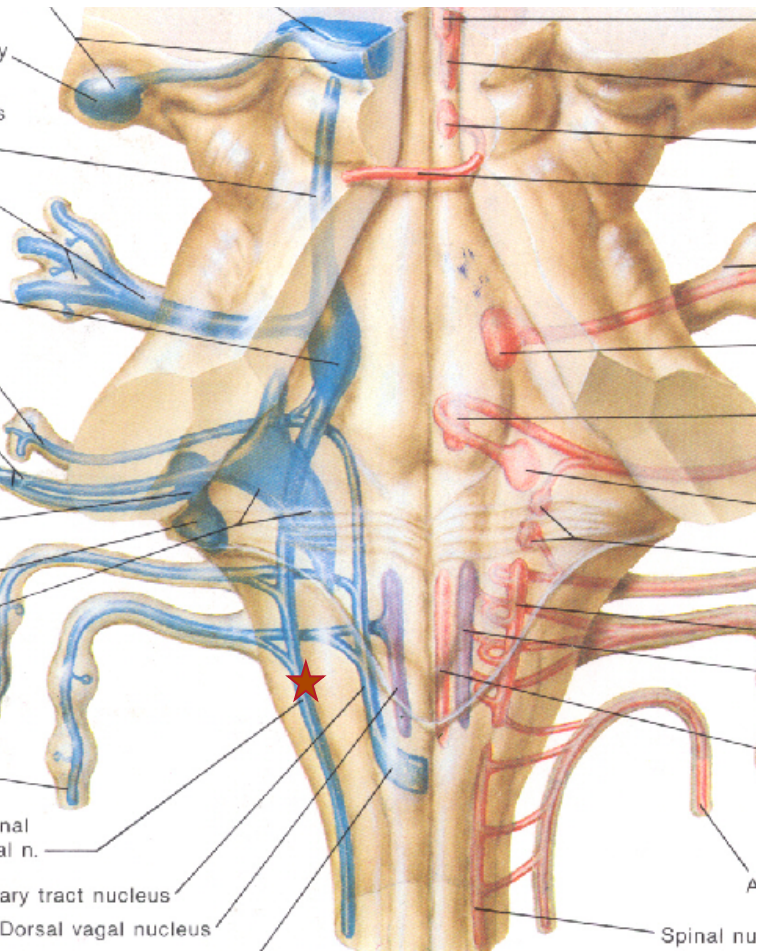
Leaves the brain stem from the pontobulbar sulcus



The spinal nucleus of the trigeminal tract:

Continuous upward through the lower part of the pons

At higher levels continuous with the sensory principle nucleus of trigeminal nerve



Medial longitudinal Fasciculus (MLF)

Near the midline at all levels
of the pontine
tegmentum

